# F4PNF-C

# 苏州启道 - 康普安德鲁HELIAX中国区独家授权总代理



### Type N Female for 1/2 in FSJ4-50B cable

#### **Product Classification**

Product Type Wireless and radiating connector

Product Brand HELIAX®

Ordering Note CommScope® standard product (Global)

### General Specifications

Body StyleStraightCable FamilyFSJ4-50BInner Contact Attachment MethodCaptivated

Inner Contact Plating Gold

Interface N Female

Mounting Angle Straight

Outer Contact Attachment Method Self-flare

Outer Contact Plating Trimetal

Pressurizable No

#### **Dimensions**

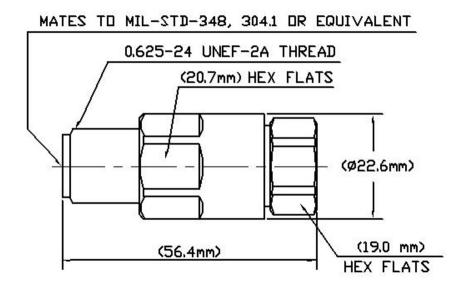
 Length
 53.09 mm | 2.09 in

 Diameter
 22.1 mm | 0.87 in

Nominal Size 1/2 in

# Outline Drawing





## **Electrical Specifications**

3rd Order IMD at Frequency -120 dBm @ 910 MHz
3rd Order IMD Test Method Two +43 dBm carriers

**Insertion Loss, typical** 0.05 dB

Average Power at Frequency 0.6 kW @ 900 MHz

**Cable Impedance** 50 ohm **Connector Impedance** 50 ohm 2000 V dc Test Voltage Inner Contact Resistance, maximum 2 m0hm Insulation Resistance, minimum 5000 MOhm **Operating Frequency Band** 0 - 12000 MHz **Outer Contact Resistance, maximum** 0.3 m0hm Peak Power, maximum 10 kW RF Operating Voltage, maximum (vrms) 707 V

#### VSWR/Return Loss

**Shielding Effectiveness** 

Frequency Band VSWR Return Loss (dB)

-110 dB

**0–1000 MHz** 1.04 36

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1000-2300 MHz	1.06	32
2300-3000 MHz	1.08	29
3000-4000 MHz	1.18	22
4000-8000 MHz	1.38	16
8000-10200 MHz	1.5	14

### Mechanical Specifications

Attachment Durability 25 cycles

**Connector Retention Tensile Force** 889.64 N | 200 lbf

**Connector Retention Torque** 5.42 N-m | 47.998 in lb

**Insertion Force** 66.72 N | 15 lbf

**Insertion Force Method** MIL-C-39012C-3.12, 4.6.9

Interface Durability 500 cycles

Interface Durability Method IEC 61169-16:9.5

Mechanical Shock Test Method MIL-STD-202F, Method 213B, Test Condition C

## **Environmental Specifications**

Operating Temperature $-55 \,^{\circ}\text{C}$  to  $+85 \,^{\circ}\text{C}$  (-67  $^{\circ}\text{F}$  to  $+185 \,^{\circ}\text{F}$ )Storage Temperature $-55 \,^{\circ}\text{C}$  to  $+85 \,^{\circ}\text{C}$  (-67  $^{\circ}\text{F}$  to  $+185 \,^{\circ}\text{F}$ )

Attenuation, Ambient Temperature  $20 \, ^{\circ}\text{C} \mid 68 \, ^{\circ}\text{F}$ Average Power, Ambient Temperature  $40 \, ^{\circ}\text{C} \mid 104 \, ^{\circ}\text{F}$ 

Corrosion Test Method MIL-STD-1344A, Method 1001.1, Test Condition A

Immersion Depth1 mImmersion Test MatingMated

**Immersion Test Method** IEC 60529:2001, IP68

Moisture Resistance Test Method MIL-STD-202F, Method 106F

Thermal Shock Test Method MIL-STD-202, Method 107, Test Condition A-1, Low Temperature -55 °C

Vibration Test Method MIL-STD-202F, Method 204D, Test Condition B

Water Jetting Test Mating Mated

Water Jetting Test Method IEC 60529:2001, IP66

Packaging and Weights

**Weight, net** 95.26 g | 0.21 lb



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## Regulatory Compliance/Certifications

#### Agency Classification

CHINA-ROHS Below maximum concentration value

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant



### \* Footnotes

**Insertion Loss, typical** 0.05v<sup>-</sup>freq (GHz) (not applicable for elliptical waveguide)

**Immersion Depth** Immersion at specified depth for 24 hours

